

NOTE: NO KNOWN UTILITY CONFLICTS.

TOTAL BILL OF MATERIAL															
	FOUNDATION EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS "A" CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	STRUCTURAL STEEL	HP 310 X 79 STEEL PILES	CONCRETE BARRIER RAIL	100mm SLOPE PROTECTION	PLAIN RIP RAP CLASS II (600mm THICK)	FILTER FABRIC FOR DRAINAGE	POT BEARINGS	MODULAR EXPANSION JOINT SEALS	
ngd ay dig digang managan maga kang akgan dag digan ay an Pangda mad digan digan manan digan matan da mah mah	LUMP SUM	SQ. M	SQ. M	CU. M	LUMP SUM	kg	APPROX.kg	NO.	М	М	SQ. M.	METRIC TONS	SQ. M.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE		2318.0	1993.2				548150			464.073				LUMP SUM	LUMP SUM
END BENT #1				33.2	LUMP SUM	2632		10	108.0		230				
BENT #1	LUMP SUM			133.4		12286		36	324.0						
BENT #2	LUMP SUM			90.3		8435		25	250.0						
BENT #3	LUMP SUM			117.7		12382		30	315.0						
END BENT #2				34 .5	LUMP SUM	2747		10	155.0			500	520		
TOTAL	LUMP SUM	2318.0	1993.2	409.1	LUMP SUM	38482	548150	111	1152.0	464.073	230	500	520	LUMP SUM	LUMP SUM

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

ALL ELEVATIONS ARE IN METERS.

ASSUMED LIVE LOAD = MS 18 OR ALTERNATE LOADING.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SNSM.

THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO SPECIFICATIONS.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A".

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 345W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMS OVER OR ADJACENT TO TRAFFIC, SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR SUBMITTAL OF WORKING DRAWING. SEE SPECIAL PROVISIONS.

FOR METRIC STRUCTURAL STEEL, SEE SPECIAL PROVISIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

PILES FOR END BENTS #1 AND #2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 530 KN EACH.

PILES FOR INTERIOR BENTS #1, #2 AND #3 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 530 KN EACH.

WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLES 420-3 OF THE STANDARD SPECIFICATIONS.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC. SEE ROADWAY PLANS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROJECT NO. R-2552AA

WAKE-JOHNSTON COUNTY

STATION: 27+51.601 -I1Y1-



SHEET 5 OF 5

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

GENERAL DRAWING

FOR BRIDGE ON LOOP B (US 70 BYPASS)

OVER EXISTING I-40

BETWEEN SR 1525 (CORNWALLIS ROAD)

	ANL) SK 21	<u>U3</u>	(NEW	<u>BF I HFF</u>	KL	JAUJ	
		SHEET NO.						
NO.	BY:	DATE:	NO.	BY:	DATE:		5-41	
1			3				TOTAL SHEETS	
2			4				429	

Plans prepared by:

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Consulting Engineers

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RALEIGH, N.C. 27606

For Division of Highways

DRAWN BY B.E. LANNING DATE JAN. 2005
CHECKED BY J.C. KO / A.K. ORR DATE JAN. 2005